(Modified) PTO/SB/08A-B (10-96)
Approved for use through 10/31/99. OMB 0651-0000

INFORMATION DISCLOSURESTATEMENT BY APPLICANT

Application Number 10/040,059 10/040,059
Filing Date October 26, 2001 APR 2 5 2001
First Named Inventor David F. Bocian

(use as many sheets as necessary)

Group Art Unit

Examiner Name

Unassigned

Attorney Docket Number

407T-300800US

Date Submitted POY 1 16, 2003

	,			S. PATENT DOCUMENTS		
Examiner Initials	Cite No.	U.S. Patent Docu Number	Ment Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
JC	1	3,637,581		Horiguchi et al.	1/25/1972	
_1_	2	4,618,509		Bulkowski	10/21/1986	
	3	5,089,872		Ozturk et al.	2/18/1992	Fillian
	4	5,173,443		Biricik et al.	12/22/1992	No.
	5	5,280,183		Batzel et al.	1/18/1994	100
	6	5,281,552		King et al.	1/25/1994	10 7 100
	7	5,294,285		Kanai et al.	3/15/1994	100
	8	5,463,014		Epstein et al.	10/31/1995	
	9	5,475,075		Brant et al.	12/12/1995	
	10	5,547,774		Gimzewski et al.	8/20/1996	
	11	5,814,420		Chu	9/29/1998	
	12	5,844,055		Brandt et al.	12/1/1998	
	13	6,013,170		Meade	1/11/2000	
	14	6,031,756		Gimzewski et al.	2/29/2000	
	15	6,128,214		Kuekes et al.	10/3/2000	
	16	6,136,678		Adetutu et al.	10/24/2000	
	17	6,246,505		Teowee et al.	6/12/2001	
	18	6,324,091		Gryko et al.	11/27/2001	
	19	6,381,169		Bocian et al.	4/30/2002	
V	20	6,451,942		Li et al.	9/17/2002	
20	21	2002-0197806,		Furukawa et al.	12/26/2002	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T				
	22	"FerroceneMolecule of the Month" Jun. 1996, University of Oxford Web Page, http://www.ncl.ox.ac.uk/mom/ferrocene/ferrocene2.html.					

Examiner Signature	ennifer Clie	Date Considered	1/24/07
		Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Modified) PTO/SB/08A-B (10-96)
Approved for use through 10/31/99.

Substitute for form 1449A-8 INFORMATION DISCLOSUREM

STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known								
Application Number	10/040,059 APR 2 5 2003							
Filing Date	October 26, 2001							
First Named Inventor	David F. Bocian TECH CENTER 600/290							
Group Art Unit	2018 1621							
Examiner Name	Unassigned Jenniles Cho							
Attorney Docket Number	407T-300800US							
Date Submitted	Mon 1 16, 2063							

,		
oc	23	"FerroceneSynthesis", Jun. 1996, University of Oxford Web Page, http://www.ncl.ox.ac.uk/mom/ferrocene/synthesis.html.
	24	BUCHLER AND NG (2000) In <i>The Porphyrin Handbook, Vol. 3</i> , Pages 245-294, Eds. K. W. Kadish, K. M. Smith, R. Guilard, Academic Press, San Diego, CA
	25	CHABACH <i>ET AL.</i> (1996) "Mixed-Metal Triple-Decker Sandwich Complexes with the Porphyrin/Phthalocynine/Porphyrin Ligand System" <i>Angew.</i> Chem. Int. Ed. Engl., 35: 898
	26	COTTON ET AL (1976) Basic Inorganic Chemistry, pp. 125, 497, 518
	27	DUCHOWSKI ET AL. (1990) Spectroscopic Characerization of Triple Decker Lanthanide Porphyrin Sandwich Complexes. Effects of Strong π π Interactions in Extended Assemblies" J Am. Chem. Soc. 112: 8807-8811
	28	GORMAN (1997) "Encapsulated Electroactive Molecules" Adv. Mater. 9(14) 1117-1119
	29	GORMAN (1999) "Molecular Structure-Property Relationships for Electron-Transfer Rate Attenuation in Redox-Active Core Dendrimers" J. Am. Chem. Soc. 121: 9958-9966
	30	GROSS (2001) "Investigation of Rational Synthesis of Heteroleptic Porphyrinic Lanthanide (Europium, Cerium) Triple-Decker Sandwich Complexes" Inorg. Chem. 40: 4762-4774
	31	GRYKO (2000) "Synthesis of Thiol-Derivatized Ferrocene-Porphrins for Studies of Multibit Information Storage" J. Org. Chem. 65: 7356-7362
	32	GRYKO (2001) "Studies Related to the Design and Synthesis of a Molecular Octal Counter" J. Mater. Chem. 11: 1162-1180
	33	JIANG ET AL. (1998) "Heteroleptic Triple-Decker (Phthalocyaninato)-Porphyrinato) Europium (III) Complexes: Synthesis and Electrochemical Study" Inorganica Chimica Acta 268: 49-53
	34	LI ET AL. (2000) "Synthesis of Thiol-Derivatized Europium Porphyrinic Triple-Decker Sandwich Complexes for Multibit Molecular Information Storage" J. Org. Chem. 65: 7379- 7390
	35	RUBEN ET AL. (2000) "Multilevel Molecular Electronic Species: Electrochemical Reduction of a [2X2] Co4 Grid Type Complex by 11 Electrons in 10 Reversible Steps" Angew. Chem. Int. Ed. 39(22) 4139-4142
Ψ	36	SOMMERAUER ET AL. (1996) "Separation of 1(3), 9(10), 16(17), 23(24)-Tetrasubstituted Phthalycyanines with Newly Developed HPLC Phases" J. Am Chem. Soc. 118: 10085-10093
20	37	WONG ET AL. (1974) "Lanthanide Porphyrin Complexes, A Potential New Class of Nuclear Magnetic Resonance Dipolar Probe" J. Am. Chem. Soc. 96(22) 7149-7150

Examiner	<i></i>	- / / /	Date	
Cionatura	deun	ske Clo	1	1/24/hZ
Signature	0,0	7,000	Considered	$\frac{1}{2}$
		<i></i>		

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## JAN, 0 6 2003 Substitute for form 10094-B/PTO

RECEIVED

(Modified) PTO/SB/08A-B (10-96) . Approved for use through 10/31/99. OMB 0651-0031

Complete if Known

Application Number

Filing Date

October 26, 2001

First Named Inventor

Group Art Unit

Examiner Name

Attorney Docket Number

David F. Bocian

Unassigned

Unassigned

407T-300800US

Date Submitted

January 2, 2003

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

	l	U.S. Patent Do		Name of Patentee or Applicant of	Date of Publication of	Pages, Columns, lines,
Examiner Initials	Cite No.	Number	Kind Code (if known)	Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appeal
1C	01	6,272,038		North Carolina State University	08-07-2001	20
Je	02	6,212,093		North Carolina State University	04-03-2001	TO C
JC	03	6,208,553		The Regents of the University of California	03-27-2001	7 3

				FOREIGI	N PATENT DOCUMEN	TS	·	<b>4</b>
Examiner	Cite	Foreign Patent Document				Date of Publication	Pages, Columns, Lines,	
Initials	No.	Office	Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T
00	04	wo	01/03126		Bocian, et al.	01-11-2001		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.	1 months in the denier (in one rise certification when appropriate), title of the item topok, magazine infilms						
JC 05 Bansal and Lewis (1998) J. Phys. Chem. 102: 1067-1070								
) 06 Bateman et al. (1998) Angew. Chem. Int. Ed., 37: 2683-2685								
	07	Bourkherroub and Wayner (1999) J. Am. Chem. Soc. 121: 11513-11515						
08 Buriak and Allen (1998) <i>J. Am. Chem. Soc.</i> , 120: 1339-1340								
	09	Clausen et al. (2000) J. Org. Chem., 65: 7371-7378						
	10	Cleland et al. (1995) Faraday Commun., 91: 4001-4003						
	11	Coulter et al. (2000) J. Vac. Sci. Technol. A 18: 1965-1970 AUG 1 3 2002						
	12	Coulter et al. (2000) J. Vac. Sci. Technol. A 18: 1965-1970  Gryko et al. (2000) J. Org. Chem., 65: 7345-7355  TC 1700						
	13	Li (2000) J. Org. Chem., 65: 7379-7390						
	14	Roth et al. (2000) J. Vac. Sci. Technol. B., 18: 2359-2364	1					
JC	15	Zhu et al. (1999) Langmuir 15: 8147-8154						
		Ω. C.	:					

				, 1	***
Examiner	/) .	$ \sim$ $\sim$	Date	77	
Signature	neum	by (lo	Considered	1/24/107	·

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.